

REVISED VERSION

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number  
**WO 2005/018720 A1**

(51) International Patent Classification<sup>7</sup>: **A61M 5/30**

(21) International Application Number:  
PCT/HU2004/000083

(22) International Filing Date: 11 August 2004 (11.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
P0302704 21 August 2003 (21.08.2003) HU

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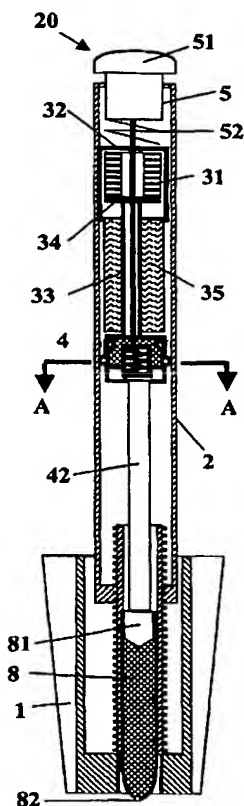
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(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

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(54) Title: NEEDLELESS INJECTION DEVICE AND CARTRIDGES



(57) Abstract: A needleless injection device (20) with a lower part (1) receiving the agent cartridge (8) and an upper part (2) providing the energy needed for injection; the upper part contains energy store units capable of elastic form-change, while the lower part is attached to the upper part revolving manner, as known in itself, in a way that rotating it in relation to the upper part, it does constrained movement in the direction of the device's longitudinal axis, approaching the upper part, and results the tension state of the energy storage structural elements; furthermore, the device has a lock (4) maintaining the tension of the energy storage units (3) and component to release the lock. Among the energy storage structural parts there is at least one start unit (31), capable of storing min. 60 %, in this case 80-90 % of the total discharge energy (pressure), with the reversible elastic distortion at max. 25 %, practically 15-20 % of the internal length of the agent cartridge (8); wherein the device is provided with separate structural components for stretching the start unit and limit its relaxation.

WO 2005/018720 A1



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the revised international search report: 7 July 2005

**Declaration under Rule 4.17:**

— *of inventorship (Rule 4.17(iv)) for US only*

**(15) Information about Correction:**

see PCT Gazette No. 27/2005 of 7 July 2005, Section II

**Published:**

— *with international search report*  
— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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